

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **A. G. Swiger**Operator Well No. : **One (1)**

LOCATION: Elevation: **1146'**
District: **Eagle**
Latitude: **39**
Longitude: **80**

Feet South of **22**
Feet West of **24**

Quadrangle: **Wolf Summit 7.5**
County: **Harrison**
Deg. **27** Min. **0** Sec.
Deg. **17** Min. **2** Sec.

Company: **JACKSON FUEL CORP**
P.O. Box 219
VOLGA, WV 26238

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
13"	24'	24	CTS
8-5/8"	1164'	1164'	CTS
4-1/2"	3420'	3420'	100 sks. Class A

Agent: **David C. Nichols, II**
Inspector: **Tim Bennett**
Permit Issued: **02-07-2000**
Well Work Commenced: **03-10-2000**
Well Work Completed: **03-18-2000**
Verbal Plugging: **N/A**
Permission granted on: **03-09-2000**
Rotary Cable Rig **X**

Total Depth (feet) **2355'**Fresh water depths (ft) **N/A**Salt water depths (ft) **N/A**Is coal being mined in area (Y / N)? **No**Coal Depths (ft) : **N/A**

Rework well squeeze cement over
Injun Sand, 100 sks. TD. 2355'
CT 1300'

OPEN FLOW DATA

Producing formation	Injun	Pay zone depth (ft)	2052-2062
Gas: Initial open flow	N/A	MCF / D	Oil: Initial open flow
Final open flow	103	MCF / D	Oil: Final open flow
Time of open flow between initial and final tests	72	Hours	Hours
Static rock pressure	380	psig (surface pressure) after	72

Second producing formation	Pay zone depth (ft)
Gas: Initial open flow	MCF / D
Final open flow	MCF / D
Time of open flow between initial and final tests	Hours
Static rock pressure	psig (surface pressure) after

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: **JACKSON FUEL CORPORATION**By: 

PRESIDENT

Date: **June 17, 2013**

Received

JUL 1 2013

A.G. Swiger #1 (47-033-02377F)

TREATMENT:

Injun (20 holes) 2052-2062 sand and water 20,000# 20/40 sand and 270 bbl. water

FORMATIONS:

No change in tops, well was drilled in 1980 and squeeze job was completed in 2000.

Received

JUL 1 2013

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: Bennett Operator Well No.: 1LOCATION: Elevation: 1378' Quadrangle: CamdenDistrict: Court House County: LewisLatitude: 10.350' Feet South of 39 Deg. 02 Min. 30 Sec.Longitude 1.750 Feet West of 80 Deg. 30 Min. 00 Sec.Company: Sachdeva Energy Enterprises LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. Box 190</u>	<u>8 5/8"</u>	<u>1314'</u>	<u>1314'</u>	<u>413 cu.ft.</u>
<u>Sand Fork, WV 26430</u>				
Agent: <u>Lester Lemon</u>	<u>4 1/2"</u>		<u>4764'</u>	<u>907 cu.ft.</u>
Inspector: <u>Tim Bennett</u>				
Date Permit Issued:				
Date Well Work Commenced: <u>04-06-04</u>				
Date Well Work Completed: <u>04-16-04</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>XX</u> Cable <u>Rig</u>				
Total Depth (feet): <u>4952'</u>				
Fresh Water Depth (ft.): <u>170'</u>				
Salt Water Depth (ft.): <u>NR</u>				
Is coal being mined in area (N/Y)? <u>No</u>				
Coal Depths (ft.): <u>170', 232'</u>				

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4629'-42'
Balltown Pay zone depth (ft) 3398'-4150'
 Gas: Initial open flow 146 MCF/d Oil: Initial open flow 0 Bbl/d
 Final open flow 596 MCF/d Final open flow Show Bbl/d
 Time of open flow between initial and final tests 11 Hours
 Static rock Pressure 1100 psig (surface pressure) after 24 Hours

Second producing formation _____ Pay zone depth (ft) _____
 Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Received
Office of Oil & Gas

JUN 21 2013

Signed:

By: Lester Lemon, Designated Agent
Date: 4/19/04

TREATMENT:

41-04819

STAGE #1: Benson (4682'-85') 12 Holes; 500 GA, 30,000# 20/40 Sand and 18,046 Gal.
Delta 65 Foam.

STAGE #2: Balltown (3402'-3680') 12 Holes; 500 GA, 30,000# 20/40 Sand and
15,798 Gal. Delta 65 Foam.

FORMATIONS:

GAS TEST:

RED CLAY	0-10'	
SD-SH	10'-62'	
SH-SD	62'-170'	
COAL	170'-182'	Water @ 170' - 1/2"
SH-SD	182'-232'	
COAL	232'-240'	
SH-SD	240'-392'	
RR	392'-422'	
RR-SD-SH	422'-542'	
SD-SH	542'-610'	
RR	610'-682'	
SD-SH	682'-872'	
SAND	872'-928'	
SD-SH	928'-1052'	
SD	1052'-1400'	
SD-SH	1400'-1742'	
SAND	1742'-1785'	
RR	1785'-1800'	
SD-SH	1800'-1845'	
L LIME	1845'-1867'	
SD-SH	1867'-1887'	
B LIME	1887'-2054'	
B INJUN	2054'-2090'	
SD-SH	2090'-2372'	
GANTZ	2372'-2410'	
SH	2410'-2492'	
GORDON	2492'-2522'	
SD-SH	2522'-2863'	
BAYARD	2863'-2942'	
SD-SH	2942'-3752'	
Balltown	3752'-3782'	
SD-SH	3782'-4682'	
BENSON	4682'-4712'	
SD-SH	4712'-4952'	
RTD	4952'	

1892'	- No Show
2222'	- No Show
2372'	- Oil Odor
2522'	- Oil Odor
3452'	- 15 MCF
3722'	- 15 MCF
4712'	- 47 MCF
4952'	- 146 MCF

Received
Office of Oil & Gas

2 2013

July 28, 2009

API # 47 - 041- 05403

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Brady**Operator Well No. : **One (1)**

LOCATION: Elevation: **959** Quadrangle: **Peterson**
District: **Collins Settlement** County: **Lewis**
Latitude: **3,700** Feet South of **38** Deg. **55** Min. **00** Sec.
Longitude: **11,100** Feet West of **80** Deg. **32** Min. **30** Sec.

Company: **SACHDEVA ENERGY ENTERPRISES, LLC**
P. O. Box 150
GLENVILLE, WV 26351-0179

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
7"	958	958	218 Cu Ft
4-1/2"		4470	441 Cu Ft

Agent: **Lester Lemon**Inspector: **Tim Bennett**

Permit Issued:

Well Work Commenced: **04-07-08**Well Work Completed: **04-24-08**

Verbal Plugging

Permission granted on:

Rotary ☒ Cable ☐ RigTotal Depth (feet) **4590**Fresh water depths (ft) **NR**Salt water depths (ft) **NR**Is coal being mined in area (Y / N)? **No**Coal Depths (ft): **NR**

OPEN FLOW DATA **Benson** **4356-4364**
Balltown **2846-3814**
Fifth **2314-2320**
Gordon **2187-2202**

Producing formation **Injun** Pay zone depth (ft) **1738-1808**Gas: Initial open flow **Show** MCF / D Oil: Initial open flow **Show** Bbl / DFinal open flow **385** MCF / D Oil: Final open flow **Show** Bbl / DTime of open flow between initial and final tests **Hours**Static rock pressure **330** psig (surface pressure) after **48** Hours**All Formations Comingled.**

Second producing formation

Gas: Initial open flow **MCF / D** Oil: Initial open flow **Bbl / D**Final open flow **MCF / D** Oil: Final open flow **Bbl / D**Time of open flow between initial and final tests **Hours**Static rock pressure **psig (surface pressure) after** **Hours**

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For: **SACHDEVA ENERGY ENTERPRISES, LLC**By: *Lester Lemon*Date: **July 28, 2009**

Received
Office of Oil & Gas

JUN 21 2013

Brady No. 1 (47-041-05403)

TREATMENT:

Benson 4358-4361 (13 Holes)	500 GA, 40,000# 20/40 Sand & 614 Bbls. 60 Quality Foam
Balltown 2847-3812 (13 Holes)	750 GA, 30,000# 20/40 Sand & 501 Bbls. 60 Quality Foam
Fifth & Gordon 2189-2317 (13 Holes)	750 GA, 40,000# 20/40 Sand & 540 Bbls. 60 Quality Foam
Injun 1739-1809 (14 Holes)	750 GA, 30,000# 20/40 Sand & 460 Bbls. 60 Quality Foam

FORMATIONS:

Little Lime	1550
Big Lime	1606
Injun	1676
Gordon	2186
Fifth	2316
Balltown	2843
Benson	4352
RTD	4590

July 28, 2009

API # 47 - 041- 05413

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Shepherd**Operator Well No. : **Two (2)**

LOCATION: Elevation: **1130** Quadrangle: **Peterson**
District: **Court House** County: **Lewis**
Latitude: **950** Feet South of **38** Deg. **55** Min. **00** Sec.
Longitude: **2,180** Feet West of **80** Deg. **35** Min. **00** Sec.

Company: **SACHDEVA ENERGY ENTERPRISES, LLC**
P. O. Box 150
GLENVILLE, WV 26351-0179

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
7"	1031	1031	210 Cu Ft
4-1/2"		4750	436 Cu Ft

Agent: **Lester Lemon**Inspector: **Tim Bennett**

Permit Issued:

Well Work Commenced: **10-14-08**Well Work Completed: **10-31-08**

Verbal Plugging

Permission granted on:

Rotary ☒ Cable ☐ RigTotal Depth (feet) **4762 LTD**Fresh water depths (ft) **NR**Salt water depths (ft) **908**Is coal being mined in area (Y / N)? **No**Coal Depths (ft): **NR**

OPEN FLOW DATA **Benson** **4655-4678**
Riley **4371-4389**
Balltown **3497-4110**
Warren **3016-3232**
Bayard **2642-2644**
Fifth **2542-2548**
Gordon **2420-2458**

Producing formation **Injun** Pay zone depth (ft) **1950-2018**Gas: Initial open flow **133** MCF / D Oil: Initial open flow **Show** Bbl / DFinal open flow **410** MCF / D Oil: Final open flow **Show** Bbl / D

Time of open flow between initial and final tests Hours

Static rock pressure **440** psig (surface pressure) after **48** Hours**All Formations Comingled.**

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D

Final open flow MCF / D Oil: Final open flow Bbl / D

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

Received
Office of Oil & Gas

JUN 2 2013

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: **SACHDEVA ENERGY ENTERPRISES, LLC**By: Date: **July 28, 2009**

Shepherd No. 2 (47-041-05413)

TREATMENT:

Benson, 3 rd Riley & Bradford 4028-4675 (13 Holes)	500 GA, 40,000# 20/40 Sand & 617 Bbls. 60 Quality Foam
Balltown 2643-3510 (13 Holes)	1,000 GA, 30,000# 20/40 Sand & 503 Bbls. 60 Quality Foam
Bayard, Fifth & Gordon 2422-2545 (13 Holes)	750 GA, 40,000# 20/40 Sand & 583 Bbls. 60 Quality Foam
Injun 1952-2017 (13 Holes)	750 GA, 30,000# 20/40 Sand & 461 Bbls. 60 Quality Foam

FORMATIONS:

Surface	0	30	
Sand/Shale/Red Rock/Lime	30	1883	Hole Wet @ 908 - ½"
Big Lime	1883	2075	Gas Ck @ 1838 - 8/10 in 2" W/W = 119 Mcf
Big Injun	2075	2100	
Sand/Shale	2100	2465	Gas Ck @ 2108 - 8/10 in 2" W/W = 119 Mcf
Gordon	2465	2595	
Fifth	2595	3070	
Speechly	3070	3530	
Balltown	3530	3550	Gas Ck @ 3548 - 6/10 in 2" W/W = 103 Mcf
Sand/Shale	3550	4600	Gas Ck @ 4568 - 10/10 in 2" W/W = 133 Mcf
Benson	4600	4630	
Sand/Shale	4630	4750	
RTD	4750		

July 28, 2009

API # 47 - 041- 05416

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Brady**Operator Well No. : **Three (3)**

LOCATION: Elevation: **1,287** Quadrangle: **Peterson**
 District: **Collins Settlement** County: **Lewis**
 Latitude: **4,690** Feet South of **38** Deg. **55** Min. **00** Sec.
 Longitude **11,140** Feet West of **80** Deg. **32** Min. **30** Sec.

Company: **SACHDEVA ENERGY ENTERPRISES, LLC**
P. O. Box 150
GLENVILLE, WV 26351-0179

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
7"	1278	1278	259 Cu Ft
4-1/2"		4788	436 Cu Ft

Agent: **Lester Lemon**Inspector: **Tim Bennett**

Permit Issued:

Well Work Commenced: **04-23-08**Well Work Completed: **05-08-08**

Verbal Plugging

Permission granted on:

Rotary ☒ Cable ☐ RigTotal Depth (feet) **4840**Fresh water depths (ft) **NR**Salt water depths (ft) **NR**Is coal being mined in area (Y / N)? **No**Coal Depths (ft): **NR**

OPEN FLOW DATA **Keener** **1992-1998**
 Injun **2089-2117**
 Gordon **2501-2518**
 Fourth **2530-2546**
 Fifth **2628-2636**
 Bayard **2721-2726**
 Baltown **3108-3721**
 Producing formation **Benson** Pay zone depth (ft) **4672-4683**

Gas:	Initial open flow	Show	MCF / D	Oil:	Initial open flow	Show	Bbl / D
	Final open flow	460	MCF / D		Final open flow	Show	Bbl / D
Time of open flow between initial and final tests				Hours			

Static rock pressure **395** psig (surface pressure) after **48** Hours

All Formations Comingled.

Second producing formation

Gas:	Initial open flow	MCF / D	Oil:	Initial open flow	Bbl / D
	Final open flow	MCF / D		Final open flow	Bbl / D
Time of open flow between initial and final tests				Hours	

Static rock pressure psig (surface pressure) after Hours

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For: **SACHDEVA ENERGY ENTERPRISES, LLC**By: *Lester Lemon*Date: **July 28, 2009**

JUN 21 2013

Brady No. 3 (47-041-05416)

TREATMENT:

Benson 4675-4678 (13 Holes)	500 GA, 40,000# 20/40 Sand & 616 Bbls. 60 Quality Foam
Balltown 3109-4177 (13 Holes)	1,000 GA, 30,000# 20/40 Sand & 513 Bbls. 60 Quality Foam
Bayard, Fifth & Gordon 2502-2725 (15 Holes)	750 GA, 40,000# 20/40 Sand & 540 Bbls. 60 Quality Foam
Injun & Keener 1993-2116 (14 Holes)	750 GA, 40,000# 20/40 Sand & 554 Bbls. 60 Quality Foam

FORMATIONS:

Little Lime	1860
Big Lime	1918
Keener	1984
Injun	2020
Gordon	2500
Fourth	2530
Fifth	2630
Bayard	2720
Balltown	3093
Benson	4660
RTD	4840

July 28, 2009

API # 47 - 041- 05417

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Brady**Operator Well No. : **Four (4)**

LOCATION: Elevation: **1,309** Quadrangle: **Peterson**
 District: **Collins Settlement** County: **Lewis**
 Latitude: **4,150** Feet South of **38** Deg. **55** Min. **00** Sec.
 Longitude **10,000** Feet West of **80** Deg. **32** Min. **30** Sec.

Company: **SACHDEVA ENERGY ENTERPRISES, LLC**
P. O. Box 150
GLENVILLE, WV 26351-0179

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
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Agent: **Lester Lemon**Inspector: **Tim Bennett**

7"	1281	1281	266 Cu Ft
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Permit Issued:

Well Work Commenced: **04-30-08**

4-1/2"	4796	436 Cu Ft
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Well Work Completed: **05-15-08**

Verbal Plugging

Permission granted on:

Rotary **X** Cable **Rig**Total Depth (feet) **4890**Fresh water depths (ft) **NR**Salt water depths (ft) **NR**Is coal being mined in area (Y / N)? **No**Coal Depths (ft): **NR**

OPEN FLOW DATA	Benson	4687-4696
	Balltown	3179-3736
	Bayard	2738-2740
	Fifth	2644-2651
	Gordon	2515-2528
	Injun	2112-2117
Producing formation	Keener	2028-2040

Gas: Initial open flow **Show** MCF / D Oil: Initial open flow **Show** Bbl / DFinal open flow **465** MCF / D Oil: Final open flow **Show** Bbl / D

Time of open flow between initial and final tests Hours

Static rock pressure **440** psig (surface pressure) after **48** Hours**All Formations Comingled.**

Second producing formation Pay zone depth (ft)

Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D

Final open flow MCF / D Oil: Final open flow Bbl / D

Time of open flow between initial and final tests Hours

Static rock pressure psig (surface pressure) after Hours

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For: **SACHDEVA ENERGY ENTERPRISES, LLC**By: *Lester Lemon*Date: **July 28, 2009**

JUN 21 2013

Brady No. 4 (47-041-05417)

TREATMENT:

Benson 4688-4693 (13 Holes)	500 GA, 40,000# 20/40 Sand & 616 Bbls. 60 Quality Foam
Balltown 3121-3735 (13 Holes)	750 GA, 30,000# 20/40 Sand & 513 Bbls. 60 Quality Foam
Bayard, Fifth & Gordon 2519-2739 (13 Holes)	750 GA, 40,000# 20/40 Sand & 540 Bbls. 60 Quality Foam
Injun & Keener 2028-2115 (13 Holes)	500 GA, 30,000# 20/40 Sand & 461 Bbls. 60 Quality Foam

FORMATIONS:

Little Lime	1889
Big Lime	1946
Keener	2024
Injun	2045
Gordon	2515
Fourth	2542
Fifth	2644
Bayard	2736
Balltown	3120
Benson	4633
RTD	4890

✓
WR-35
Rev (9-11)

Fracture Completion
State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 6-18-2013
API #: 47-085-06858 **F**

Farm name: Wayman Eugene Maxson ET 1 Operator Well No.: 911365

LOCATION: Elevation: 1188' Quadrangle: Oxford 7.5'

District: Union County: Ritchie
Latitude: 6800' Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude 11150' Feet West of 80 Deg. 50 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: <u>P.O. Box 18496</u>	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
<u>Oklahoma City, OK 73154-0496</u>	<u>11 3/4"</u>	<u>40</u>	<u>40</u>	<u>CTS</u>
Agent: <u>Eric Gillespie</u>	<u>8 5/8"</u>	<u>700'</u>	<u>700'</u>	<u>CTS</u>
Inspector: <u>OK S.M. 6-13-2006</u>	<u>4 1/2"</u>	<u>5288'</u>	<u>5288'</u>	<u>1600 Cu. Ft.</u>
Date Permit Issued: <u>9-29-2006</u>				
Date Well Work Commenced: <u>7-31-2007</u>				
Date Well Work Completed: <u>7-31-2007</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): <u>5500'</u>				
Total Measured Depth (ft.): <u>5500'</u>				
Fresh Water Depth (ft.): <u>40'</u>				
Salt Water Depth (ft.): <u>N/A</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>N/A</u>				
Void(s) encountered (N/Y) Depth(s) <u>N</u>				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Big Injun, Weir, Riley, Benson, Alexander Pay zone depth (ft) 2117-5200

Gas: Initial open flow 40" MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours *Calculated

Static rock Pressure 2,473** psig (surface pressure) after 24 Hours **Average of all producing formations

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

Received

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

Office of Oil and Gas
WV Dept. of Environmental Protection
6-25-2013
Date

47-085-0685,
47-085-6858

Were core samples taken? Yes _____ No ☒

Were cuttings caught during drilling? Yes _____ No ☒

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____
Resistivity and Density wireline logs

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See attached

Plug Back Details Including Plug Type and Depth(s):

<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>Bottom Depth</u>
<u>Surface:</u>	/	

See attached

Received

JUN 27 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Office of Oil and Gas
WV Dept. of Environmental Protection

47-085-0685
47-085-06858

VERTICAL HOLE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/SHALE	0	0	6	6
SS	6	6	18	18
RED ROCK	18	18	40	40
SS/SHALE	40	40	83	83
RED ROCK	83	83	93	93
SS/SHALE	93	93	333	333
RED ROCK	333	333	352	352
SS/SHALE	352	352	392	392
RED ROCK	392	392	468	468
SS/SHALE	468	468	479	479
RED ROCK	479	479	508	508
SS/SHALE	508	508	760	760
RED ROCK	760	760	797	797
SS/SHALE	797	797	820	820
RED ROCK	820	820	885	885
SS/SHALE	885	885	1965	1965
LITTLE LIME	1965	1965	1992	1992
SS/SHALE	1992	1992	2005	2005
BIG LIME	2005	2005	2110	2110
BIG INJUN	2110	2110	2120	2120
SS/SHALE	2120	2120	2287	2287
WEIR	2287	2287	2416	2416
SS/SHALE	2416	2416	2671	2671
GORDON STRAY	2671	2671	2682	2682
SS/SHALE	2682	2682	2775	2775
GORDON	2775	2775	2821	2821
SS/SHALE	2821	2821	3348	3348
SPEECHLEY	3348	3348	3391	3391
SS/SHALE	3391	3391	3753	3753
BALLTOWN	3753	3753	3780	3780
SS/SHALE	3780	3780	4364	4364
RILEY	4364	4364	4390	4390
SS/SHALE	4390	4390	4804	4804
BENSON	4804	4804	4856	4856
SS/SHALE	4856	4856	5048	5048
ALEXANDER	5048	5048	5082	5082
SS/SHALE	5082	5082	5500	5500
TD	5500	5500		0

Received

27 2013

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: FOX Operator Well No.: 29 REV

LOCATION: Elevation: 1040' Quadrangle: HARRISVILLE 7.5'

District: GRANT County: RITCHIE
Latitude: 6900' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 4660' Feet West of 81 Deg. 05 Min. 00 Sec.

Company: TERM ENERGY CORPORATION

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>713 EAST MAIN ST.</u>				
<u>HARRISVILLE, WV 26362</u>	<u>7"</u>	<u>258'</u>	<u>258'</u>	<u>C.T.S.</u>
Agent: <u>LEROY BAKER</u>				
Inspector: <u>STEVEN MOSSOR</u>	<u>4 1/2"</u>	<u>2124'</u>	<u>2124'</u>	<u>135 cu. Ft.</u>
Date Permit Issued: <u>7/25/06</u>				
Date Well Work Commenced: <u>6/29/06</u>				
Date Well Work Completed: <u>7/19/06</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>X</u> Cable <u> </u> Rig <u> </u>				
Total Depth (feet): <u>2180'</u>				
Fresh Water Depth (ft.): <u>none</u>				
Salt Water Depth (ft.): <u>none</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>none</u>				

OPEN FLOW DATA

Producing formation Keener / Blue Monday Pay zone depth (ft) 1956' - 2062'

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow MCF/d Final open flow Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

Second producing formation Maxon Pay zone depth (ft) 1780' - 1810'

Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d

Final open flow 60 MCF/d Final open flow 1.5 Bbl/d

Time of open flow between initial and final tests Hours

Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:

By: [Signature]
Date: 10-4-06

JUL 2 2013

Fox #29 47-085-09406
Three Stage Foam Frac

85-09406

1st Stage Keener (15 holes) (2055' – 2062')

75 Quality Foam, 49 Bbls. 15% HCL Acid,
25,000 # 30/50 Sand, 435,800 SCF N2,
214 Bbls. Total Fluid

2nd Stage Blue Monday (20 holes) (1956' – 1966')

75 Quality Foam, 36 Bbls. 15% HCL Acid,
15,000 # 30/50 Sand, 335,900 SCF N2,
180 Bbls. Total Fluid

3rd Stage Maxon (30 holes) (1780' – 1810')

75 Quality Foam, 12 Bbls. 15% HCL Acid,
30,000 # 30/50 Sand, 508,500 SCF N2,
224 Bbls. Total Fluid

WELL LOG

Sand, Shale & Red Rock	0'	1779'
Maxon	1779'	1814'
Sand & Shale	1814'	1947'
Blue Monday	1947'	1977'
Sand & Shale	1977'	1996'
Lime	1996'	2016'
Shale	2016'	2028'
Keener	2028'	2082'
Sand & Shale	2082'	2180'

No water shows

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 07/01/13
API #: 47-087-03345 F

Farm name: Drake Operator Well No.: 166

LOCATION: Elevation: 1036' Quadrangle: Otter S.W.

District: Geary County: Roane
Latitude: _____ Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude _____ Feet West of _____ Deg. _____ Min. _____ Sec.

Company: Prime Operating

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
714 1/2 Lee Street East Charleston, WV 25301	8 5/8"	253	253	100 sks
Agent: <u>Halsey Whitney</u>				
Inspector: <u>Ed Gainer</u>				
Date Permit Issued: <u>9/27/07</u>				
Date Well Work Commenced: <u>2/27/08</u>				
Date Well Work Completed: <u>7/15/08</u>	4 1/2"		1832	100 sks
Verbal Plugging:				
Date Permission granted on:				
Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				120 sks
Total Vertical Depth (ft):			TOC	730'
Total Measured Depth (ft):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Maxton Pay zone depth (ft) 1624-30'
Gas: Initial open flow 0 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 0 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 1 Hours
Static rock Pressure 0 psig (surface pressure) after 1 Hours

Second producing formation Salt Sand Pay zone depth (ft) 1310'-1362'
Gas: Initial open flow 74 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 74 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 14 Hours
Static rock Pressure 155 psig (surface pressure) after 48 Hours

Received

JUL 8 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Halsey M. Whitney
Signature

7/5/13
Date

~~Office of Oil and Gas~~
WV Dept. of Environmental Protection

DATE: 7/11/2013

API : 47-087-04256H

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Farm name: Griffin, Vineyard, Mirquet
Location Elevation: 1,136'
District: Geary

Operator Well No: 823954 (Kick 3)
Quadrangle: Looneyville
County: Roane

Latitude 14,847 Feet South of 38 Deg 40 Min 00 Sec
Longitude 6,030 Feet West of 81 Deg 15 Min 00 Sec

Columbia Natural Resources, Inc. (CHK)	Casing & Tubing	Used in drilling	Left in Well	Cement fill up Cu.Ft.
Address: P.O. Box 6070	26"	20	20	216 Existing
Charleston, WV 25362				
Agent: Eric B. Gillespie	20"	350	350	400 Existing
Inspector: Ed Gainer (H. Dougherty)				
Date Permit Issued: 1/7/2002	13 3/8"	2122	2122	1880 Existing
Date Well work commenced: 1/22/2002				
Date Well Work completed: 2/24/2002	9 5/8"	6120	6120	354 Existing
Verbal Plugging: Yes (H.H.D.)				
Date Permission granted on: 2/18/2002	7"	9243	9243	780 Existing
<input checked="" type="checkbox"/> Rotary <input type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): 11,002				
Fresh Water Depth (ft):				
Salt Water Depth (ft.): 1,580, 1,750				
Is coal being mined in area <input checked="" type="checkbox"/> N <input type="checkbox"/> Y				
Coal Depths (ft): N/A				

OPEN FLOW DATA

Producing formation: Trenton/Black River O.H. Pay zone depth (ft) from 9803 to 11,002
 Gas: Initial open flow 0 MCF/d MCF/d Oil: Initial open flow None
 Final open flow 0 MCF/d Final open flow None
 Time of open flow between initial and final tests Hours N/A
 Static rock Pressure 0 psig (surface pressure) after 10 Hours

Well was declared dry hole and was plugged to abandon.

2nd producing formation: Pay zone depth (ft) from to; from to
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

3rd producing formation: Pay zone depth (ft) from to; from to
 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d
 Final open flow MCF/d Final open flow Bbl/d
 Time of open flow between initial and final tests Hours
 Static rock Pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

WELL OPERATOR: Columbia Natural Resources, Inc. (CHK)

By: R. E. Schindler Date: 7-11-13

Received

JUL 11 2013

Office of Oil and Gas
Dept. of Environmental Protection

Columbia Natural Resources (CHK)

GROVES 823954 – Kick 3

47-087-24256H

Geary District, Roane County, WV

All depths are measured

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Kick off point	9324	
Martinsburg	9324	9803
Trenton	9803	10,175
Black River	10,175	10,864
Wilcox Limestone	10,864	10,912
St. Peter Limestone	10,912	11,002 (TD)

Received

JUL 11 2013

Office of Oil and Gas
WV Dept. of Environmental Protection

Columbia Natural Resources, Inc.
GROVES 23954
Straight hole

47-087-24256
Geary District, Roane County, WV

All depths are measured

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>
Shale & siltstone	0	1568
Salt Sand	1568	1804
Shale	1804	1886
Little Lime	1886	1925
Big Lime	1925	2117
Injun	2117	2150
Pocono Shale	2150	2446
Sunbury Shale	2446	2466
Berea	2466	2472
Upper Devonian Sh	2472	2767
Gordon Siltstone	2767	2781
Devonian Shale	2781	3612
Lower Huron	3612	4770
Devonian Shale	4770	4897
Lower Alexander	4897	4974
Devonian Shale	4974	5110
Rhinestreet	5110	5467
Devonian Shale	5467	5734
Marcellus	5734	5776
Onondaga	5776	5940
Oriskany	5940	6000
Helderberg	6000	6273
Salina	6273	6913
Newburg	6913	6932
McKenzie	6932	7276
Rose Hill	7276	7762
Tuscarora	7762	7832
Juniata (red)	7832	8500
Martinsburg (gray)	8500	9803
Trenton	9803	9950
Black River	9950	TD

(10,849')
Received

JUL 11 2013

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: PHILIP O. CONLEY, ET UX

Operator Well No. : KEE S-349-1

LOCATION: Elevation: 746'

Quadrangle: WALTON

District: HARPER

County: ROANE

Latitude: 1700 Feet South of 38 Deg. 42 Min. 30 Sec.

Longitude: 11600 Feet West of 81 Deg. 25 Min. 00 Sec.

Company: STALNAKER ENERGY CORPORAT
P.O. BOX 178
GLENNVILLE, WV 26351-0000

Agent: RON STALNAKER

Inspector: ED GAINER
Permit Issued: 07/05/05
Well Work Commenced: 08/22/05
Well Work Completed: 09/06/05
Verbal Plugging
Permission granted on: 09-05-05
Rotary X Cable 2014" Rig
Total Depth (feet) 2014"
Fresh water depths (ft) 48', 150'
Salt water depths (ft) 1715'

Casing & Tubing Size	Used in Drilling	Left In Well	Cement Fill Up Cu. Ft.
9 5/8"	200.57'	200.57'	60 sks To Surface
7"	N/A		
4 1/2"	N/A		

Is coal being mined in area (Y / N)? N
Coal Depths (ft): NONE

OPEN FLOW DATA

Producing formation None Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF / d Oil: Initial open flow N/A Bbl / d
Final open flow N/A MCF / d Oil: Final open flow N/A Bbl / d
Time of open flow between initial and final tests N/A Hours
Static rock pressure N/A psig (surface pressure) after HoursSecond producing formation Pay zone depth (ft)
Gas: Initial open flow N/A MCF / d Oil: Initial open flow Bbl / d
Final open flow N/A MCF / d Oil: Final open flow Bbl / d
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

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Received

For: STALNAKER ENERGY CORPORATION

JUL 12 2013

By: 

December 21, 2005

Office of Oil and Gas
its President Environmental Protection

Kee S-349-1 (47-087-4446)

Rig encountered 4-1/2" stream of water at 1715'. Rig became hung in the hole at 2014' on 08-29-05. Backed off on 09-02-05. Drill out fill and circulate mud on 09-03-05. Trip in with hydraulic jars on 09-04-05. Jarring was unsuccessful. Back off jars and trip out of hole. Skid rig on 09-07-05 to new permit number 47-087-04474.

<u>WELL LOG</u>		
Clay & Fill	0	10
Sand	10	20
Red Rock	20	27
Sand & Shale	27	110
Red Rock & Sand & Shale	110	190
Sand & Shale	190	220
Red Rock	220	235
Sand & Shale	235	360
Red Rock & Sand & Shale	360	430
Sand & Shale	430	560
Red Rock & Shale	560	705
Sand & Shale	705	915
Sand	915	1050
Sand & Shale	1050	1265
Sand	1265	1322
Sand & Shale	1322	1412
Salt Sand	1412	1776
Shale	1776	1800
Big Lime	1800	1935
Big Injun	1935	1978
Shale	1978	2014
TD	2014	
(Hung in Hole)		

1/2" water @ 48'
2" water @ 150'

4-1/2" water @ 1715'

Gas Checks
1509' – 50/10 thru 2" w/w

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JUL 12 2013

Office of Oil and Gas
WV Dept. of Environmental Protection